Hautanga ā-Ira
HE RAUTAKI WHAKAREA (HAUTEKAU)

Hei Mahi 1

E ako ana ahau i te rautaki 'te tau māmā me te tikanga paremata' hei whakaoti rapanga e whai wāhi mai ana te tauoti me te tau ā-ira.

Hei tauira:

E tino whaihua ana te rautaki 'te tau māmā me te tikanga paremata' hei whakaoti i ngā rapanga pēnei i te 2.9 x 4:

He pātata te 2.9 ki te 3, ā, he tau māmā te 3. Nō reira ka whakareatia te 3 ki te 4 (3 x 4), kātahi ka tango i te 0.1 x 4 (nā te mea ko te 0.1 te rahinga ake o te 3 i te 2.9):

2.9 x 4 = (3 x 4) – (0.1 x 4)
= 12 – 0.4
= 11.6

Ngā tohutohu:

- E whai ake nei ētahi meka whakareatanga. Tuhia kia rua ngā whakareatanga ā-ira e whai pānga ana, kia taea ngā whakareatanga ā-ira te whakaoti mā te whakamahi i te meka whakareatanga, pēnei i te tauira i runga nei.
- Tuhia ngā whakareatanga ā-ira e rua me ngā otinga.

1)	3×5	(2)	5×7	(3)	7×6
4)	4×9	(5)	6×8	(6)	8×7
7)	3×9	(8)	2×8	(9)	5×6

Hei Mahi 2

E ako ana ahau i te rautaki 'te tau māmā me te tikanga paremata' hei whakaoti rapanga e whai wāhi mai ana te tauoti me te tau ā-ira.

Ngā tohutohu:

Whakamahia te rautaki o Hei Mahi 1 (te tau māmā me te tikanga paremata) hei whakaoti i ngā whakareatanga ā-ira nei:

1)	3×6.8	(2)	2×7.9	(3)	4×5.9

4)	6×5.9	(5)	8×3.8	(6)	7×6.2
7)	5×7.1	(8)	9×4.9	(9)	4×11.2
10)	3×10.1	(11)	5×4.9	(12)	6×10.2
13)	2×15.2	(14)	7×9.9	(15)	8×11.2
10)	$9.99 + \square = 15.48$	(11)	$2.98 + \square = 8.46$	(12)	$5.93 + \square = 9.71$

Hei Mahi 3

E ako ana ahau i te rautaki 'te wāwāhi uara tū' hei whakaoti rapanga e whai wāhi mai ana te tauoti me te tau ā-ira.

Hei tauira:
E tino whaihua ana te rautaki 'te wāwāhi uara tū' hei whakaoti i ngā rapanga pēnei i te 3.2 x 4:

Ka wāwāhia te 3.2 ki ōna wahanga uara tū, arā, te 3 me te 0.2. Ka whakareatia ia wāhanga ki te 4:
$3.2 \times 4 = (3 \times 4) + (0.2 \times 4)$
$= 12 + 0.8$
$= 12.8$

Ngā tohutohu:
Whakamahia te rautaki i runga nei hei whakaoti i ēnei rapanga:

1)	2×4.2	(2)	3×2.2	(3)	4×1.2	(4)	4×3.2
5)	6×5.1	(6)	8×7.1	(7)	2×8.4	(8)	3×6.3
9)	3×10.2	(10)	4×12.2	(11)	4×103.2	(12)	3×1123.3

13) Whakawhitiwhiti kōrero mō ngā āhuatanga ōrite o ngā rautaki e rua nei?
- te tau māmā me te tikanga paremata
- te wāwāhi uara tū

14)	5×11.1	(15)	7×31.1	(16)	4×42.2	(17)	3×52.3

18) Me pēhea te whakamahi i te rautaki 'te wāwāhi i ngā uara tū' hei whakaoti i ngā rapanga pēnei i te 2×1234.5?

Hei Mahi 4
Hei tauira:
Ko tā Mereana hei whakaoti i te whakareatanga 1.4 x 3, he whakarea i te 1 ki te 3, ka 3, he whakarea i ngā 4 hautekau ki te 3, ka 12 hautekau. He ōrite te 12 hautekau ki te 1.2, nō reira:

1.4 x 3 = (1 x 3) + (0.4 x 3)

$\quad\quad\quad$ = 3 + 1.2

$\quad\quad\quad$ = 3 + 1 + 0.2

$\quad\quad\quad$ = 4.2

Ngā tohutohu:
Whakamahia te rautaki a Mereana hei whakaoti i ngā whakareatanga e whai ake nei:

1)	4×3.4	(2)	6×5.4	(3)	3×2.6	(4)	2×1.7
5)	7×1.3	(6)	5×3.2	(7)	8×1.4	(8)	3×3.4
9)	5×2.7	(10)	7×2.6	(11)	4×2.9	(12)	6×4.3

Hei Mahi 5
Ngā tohutohu:
Āta whakaarohia te rautaki e tino whaihua ana hei whakaoti i ngā whakaretanga nei. Tuhia ngā hīkoi katoa o te rautaki:

1)	4×6.4	(2)	6×7.9	(3)	3×10.8	(4)	2×15.9
5)	7×8.9	(6)	5×7.6	(7)	8×9.8	(8)	8.7×3
9)	6.4×5	(10)	7.3×7	(11)	8.2×4	(12)	5.8×6
13)	9×8.8	(14)	8.8×2	(15)	6.3×9	(16)	5×7.9
17)	9×11.4	(18)	7.6×8	(19)	3×9.9	(20)	8×10.6
21)	2×15.3	(22)	7×9.5	(23)	4×5.9	(24)	6×8.4

Hautanga ā-Ira
HE RAUTAKI WHAKAREA (HAUTEKAU)
NGĀ OTINGA

Hei Mahi 1

He tauira whakautu:

1) $3 \times 4.9 = 14.7$
    $3 \times 4.8 = 14.4$
    $3 \times 5.1 = 15.3$
    $3 \times 5.2 = 15.6$

(2) $5 \times 6.9 = 34.5$
     $5 \times 6.8 = 34$
     $5 \times 7.1 = 35\ 5$
     $5 \times 7.2 = 36$

(3) $7 \times 5.9 = 41.3$
     $7 \times 5.8 = 40.6$
     $7 \times 6.1 = 42.7$
     $7 \times 6.2 = 43.4$

4) $4 \times 8.9 = 35.6$
    $4 \times 8.8 = 35.2$
    $4 \times 9.1 = 36.4$
    $4 \times 9.2 = 36.8$

(5) $6 \times 7.9 = 47.4$
     $6 \times 7.8 = 46.8$
     $6 \times 8.1 = 48.6$
     $6 \times 8.2 = 49.2$

(6) $8 \times 6.9 = 55.2$
     $8 \times 6.8 = 54.4$
     $8 \times 7.1 = 56.8$
     $8 \times 7.2 = 57.6$

7) $3 \times 8.9 = 26.7$
    $3 \times 8.8 = 26.4$
    $3 \times 9.1 = 27.3$
    $3 \times 9.2 = 27.6$

(8) $2 \times 7.9 = 15.8$
     $2 \times 7.8 = 15.6$
     $2 \times 8.1 = 16.2$
     $2 \times 8.2 = 16.4$

(9) $5 \times 5.9 = 29.5$
     $5 \times 5.8 = 29$
     $5 \times 6.1 = 30.5$
     $5 \times 6.2 = 31$

Hei Mahi 2

1)	20.4	(2)	15.8	(3)	23.6
4)	35.4	(5)	30.4	(6)	43.4
7)	35.5	(8)	44.1	(9)	44.8
10)	30.3	(11)	24.5	(12)	61.2
13)	30.4	(14)	69.3	(15)	89.6

Hei Mahi 3

1)	8.4	(2)	6.6	(3)	4.8
4)	12.8	(5)	30.6	(6)	56.8
7)	16.8	(8)	18.9	(9)	30.6
10)	48.8	(11)	412.8	(12)	3369.9
14)	55.5	(15)	213.7	(16)	168.8
17)	156.9				

18)   He māmā noa iho te 1234 × 2 = 2468. Mēnā, ko te 1234.5 x 2 ko te kotahi te otinga o te
        0.5 x 2, nō reira ka tāpirihia tērā ki te 2468, arā, ko te 2469 te otinga.

Hei Mahi 4

1)	13.6	(2)	32.4	(3)	7.8
4)	3.4	(5)	9.1	(6)	16
(7)	11.2	(8)	10.2	(9)	13.5
(10)	18.2	(11)	11.6	(12)	25.8

Hei Mahi 5

1)	25.6	(2)	47.4	(3)	32.4
4)	31.8	(5)	62.3	(6)	38
7)	78.4	(8)	26.1	(9)	32
10)	51.1	(11)	32.8	(12)	34.8
13)	79.2	(14)	17.6	(15)	56.7
16)	39.5	(17)	102.6	(18)	60.8
19)	29.7	(20)	84.8	(21)	30.6
22)	66.5	(23)	23.6	(24)	50.4